Work Orde January 18, 201			<b>(</b> )									Page	1
Item ID: Revision ID:	D3481-043		,	Accept					Setup	Start			
Item Name:	Bracket & Clam	np Assembly 5								Stop			
	1/18/11	Start Qty: 2.00 Req'd Qty: 2.00	1881   1891		Cust Item ID: Customer:								
Approvals:	Process Plan	: <u></u>	Date: 11/01/18	Date: 11/01/18 Tooling:		ate:		-	Run	Start			ļ
	QC:		Date:	SPC (Y/N): Date:				Stop					
Sequence ID/ Work Center ID		Operation Description		Set Up/ Run Hours	Tool ID	Tool#	Plan Code	Accept	Rej Qty		Reject Number	Insp. Stamp	
Draw Nbr	Revis	sion Nbr					//						
D3481	Rev E	3						>X/					
Small Fab			le as per Dwg D3481 eld as per Dwg D3481	0.00	m.L	1/01/	31		-		<u>.</u>		-
110 QC Quality Control		QC11- Inspect spot we	eld per QSI004	0.00 0.00	11/02/01	•	ı	3					_
120 QC Quality Control		QC5- Inspect part com	apleteness to step on W/O	0.00 0.00	nl oalsi		(	5					_

Dart A	Aerosi	pace	Ltd
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W/O:			WORK ORDER CHANGES									
DATE	STEP	PRO	OCEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
						·						
						·						
Part No	•	PAR #:	Fault Cat	euoty.	NC	R· Yes	No DO	Δ-	Date:			
Resolution:												
NCR:			WORK ORI	DER NON-CONFO	RMANCE	E (NCF	R)					
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Action Descrip	Section B	Sign &	Secti	cation on C	Approval Chief Eng	Approval QC Inspector		
			Shiol Elig	Ollid Eng								
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NOTE: Date & initial all entries

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### Work Order ID 65487

January 18, 2011 3:12:49 PM



Page 2

Item ID:

D3481-043

Accept

Setup Start

Stop

Start

Stop



**Revision ID:** 

Item Name:

Required Date: 1/18/11

Bracket & Clamp Assembly

**Start Date:** 

1/18/11

Start Qty: 2.00

Req'd Qty: 2.00



**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

Process Plan:

QC:

Date:

Date:

**Tooling:** 

SPC (Y/N):

Date:

Tool ID

Tool # Plan

Code

Date:

Accept Qty

Reject Qty

Run

Reject Number

Insp. Stamp

**Work Center ID** 

130

Sequence ID/

Packaging

Packaging

Operation Description

Identify as per dwg & Stock Location: GA

45468

Set Up/ Run Hours 0.00

Sp 11/00/01

140

Quality Control

QC21- Final Inspection - Work Order Release

0.00

0.00

0.00

11/02/02 Sf 12/11-02-1

Memo

# **Dart Aerospace Ltd**

W/O:			WC	ORK ORDER CHANGE	ES						
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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	-										
Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No DQA:	lo DQA: Date:				
	R	esolution:	Dispositio	n:	QA: N/C Clo	losed: Date:					
NCR:		1	WORK ORD	ER NON-CONFORMA	NCE (NCR)	)					
DATE	STEP	Description of NC		Corrective Action Section		Verification	Approval	Approval			
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector			
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NOTE: Date & initial all entries

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### **Picklist Print**

January 18, 2011 3:12:49 PM

Work Order ID: 65487

D3481-043 Parent Item:

Parent Item Name: Bracket & Clamp Assembly



**Start Date: 1/18/11** 

Required Date: 1/18/11

Page 1

Start Qty: 2.00

Required Qty: 2.00

Comments:

IPP Rev:A 11.01.18 as per dwg rev.B DD verf:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status	_
D3481-3  Angle Bracket		Manufactured	No			100	Each B &	0.000.0 5847		<sup>2</sup> 5	SD 1	1/01/2	17	S
QS200-52S		Purchased	No	÷		100	Each	10.0000	2	4 S0	110	1/27	S	3
				<b>Location</b>		Loc	<u>Otv</u>	Loc Code						
				ST450	105603		10 10		_	10	_			

# Dart Aerospace Ltd

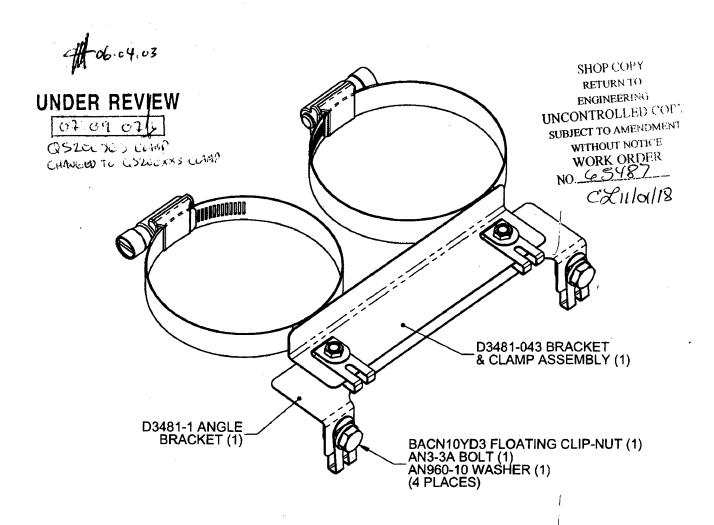
W/O:			WO	RK ORDER CHANC	GES						
DATE	STEP	PRO	OCEDURE CHAN	GE	Ву	Da	ite Qty	Approval Chief Eng / Prod Mgr	Approval QC inspector		
Part No: PAR #:			Fault Categ	ory:	NCR: Y	CR: Yes No DQA: Date:					
Resolution:				Disposition: Q							
NCR:			WORK ORDE	R NON-CONFORM	ANCE (N	ICR)					
DATE	STEP	Description of NC	Initial	Corrective Action Sec Action Description	ction B	gn &	Verification	Approval	Approval		
	0	Section A	Chief Eng	Chief Eng		ate	Section C	Chief Eng	QC Inspector		
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NOTE: Date & initial all entries

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	DESIGN	3	DRAWN	BY 3		ROSPACE LTD RY, ONTARIO, CANADA	e i
	CHECK	ED #	APPRO'	VED	D3481	SHE	REV. A ET 1 OF 4
	DATE				TITLE		SCALE
		06.0	1.23		SHUT-OFF VA	LVE BRACKET	2:3
_	Α	0	6.01.23		NEW ISSUE		



## **D3481-041 SHUT-OFF VALVE BRACKET**

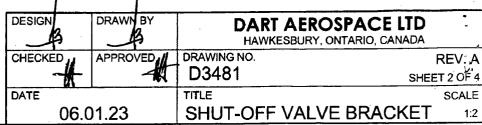
1) IDENTIFY WITH DART P/N D3481-041 USING FINE POINT PERMANENT INK MARKER

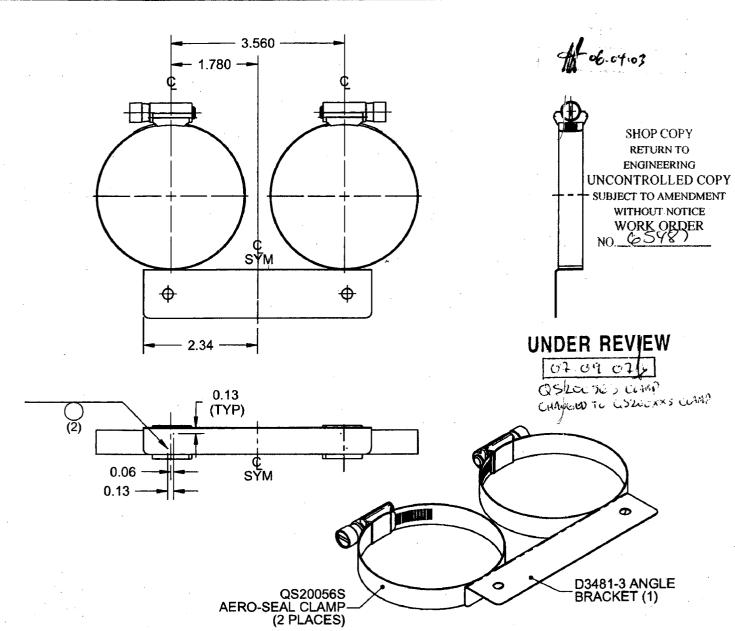
QTY -041	P/N	DESCRIPTION
Х	D3481-041	SHUT-OFF VALVE BRACKET
1	D3481-043	BRACKET & CLAMP ASSEMBLY
1	D3481-1	ANGLE BRACKET
4	AN3-3A	BOLT
4	AN960-10	WASHER
4	BACN10YD3	FLOATING CLIP-NUT

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### D3481-043 BRACKET & CLAMP ASSEMBLY

### **NOTES:**

- 1) SPOT WELD PER DART QSI 004
- 2) FINISH: NONE
- 3) ASSEMBLY IS SYMMETRICAL ABOUT CENTERLINE
- 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 5) ALL DIMENSIONS ARE IN INCHES
- 6) BREAK ALL SHARP EDGES 0.005 TO 0.010

QTY -041	P/N	DESCRIPTION
X	D3481-043	BRACKET & CLAMP ASSEMBLY
1	D3481-3	ANGLE BRACKET
2	QS20056S	AERO-SEAL CLAMP

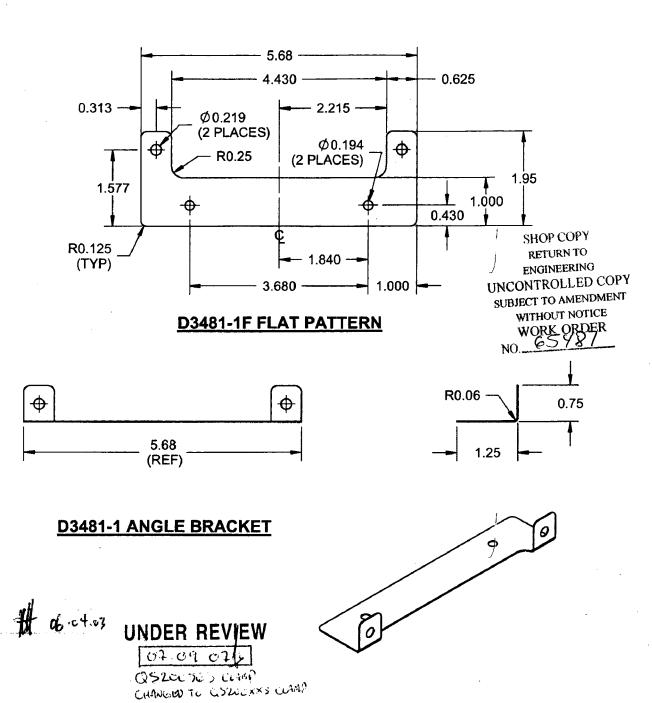
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I.

DESIGN DRAWN BY DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA APPROVED DRAWING NO. CHECKED **REV:**A D3481 SHEET 3 OF 4 DATE TITLE **SCALE** SHUT-OFF VALVE BRACKET 06.01.23 1:2



#### NOTES:

- 1) MATERIAL: AISI 304/316 SS SHEET PER MIL-S-5019 (ANNEALED) 2B FINISH 26 GAUGE SS (0.018 THICK) (REF. DART SPEC. M304S26GA)
- 2) FINISH: NONE
  3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
  4) ALL DIMENSIONS ARE IN INCHES
- 4) ALL DIMENSIONS ARE IN INCHES 5) BREAK ALL SHARP EDGES 0.005 TO 0.010

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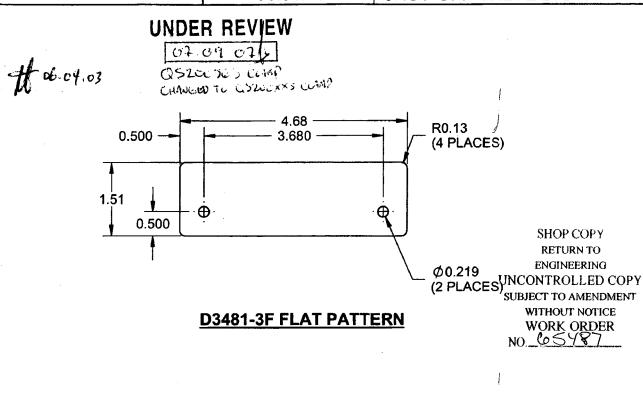


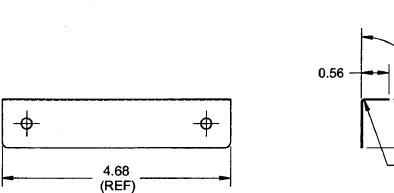
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1 4	4	_#	•	HAWKESBURY, ONTARIO, CANADA	
CHECKE	ED ull	APPRO\	/ED/	DRAWING NO.	REV. A
	#		-	D3481 SHE	ET 4 OF 4
DATE				TITLE	SCALE
	06.0	1.23_		SHUT-OFF VALVE BRACKET	1:2

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1.00

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### **D3481-3 ANGLE BRACKET**

#### NOTES:

- 1) MATERIAL: AISI 304/316 SS SHEET PER MIL-S-5019 (ANNEALED) 2B FINISH 26 GAUGE SS (0.018 THICK)
  (REF. DART SPEC. M304S26GA)
  2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
  3) ALL DIMENSIONS ARE IN INCHES
  4) BREAK ALL SHARP EDGES 0.005 TO 0.010

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## SPOT WELD TEST RECORD AMS-W-6858A CLASS 'C'

TEST NO#: 90 EMPLOYEE: Marc Marchy PART NUMBER: 7 3481-043 JOB NUMBER: B 65487 MATERIAL THICKNESS: ... 016 MATERIAL TYPE: 30 1 ( **GROUP SPECIFICATION** Group 1: Aluminum & magnesium Group 2: Iron; nickel; cobalt Group 3: Titanium **TEST RESULTS PASS FAIL** VISUAL: PENETRATION: ] PSI Reading: PULL STRENGTH: [ Qualified in accordance with standard AMS-W-6858A and QSI 004 (ref: 4.3) DATE OF TEST COUPON: 11 = 1 31 QUALIFIER: SA

## SPOT WELD TEST RECORD AMS-W-6858A CLASS 'C'

		TEST NO#: 91
EMPLOYEE: Move Frego	E.A	
PART NUMBER: 3481-04	3	JOB NUMBER: 65487
MATERIAL TYPE: 3046	· 	MATERIAL THICKNESS: -016
GROUP SPECIFICATION		Group 1: Aluminum & magnesium Group 2: Iron; nickel; cobalt Group 3: Titanium ≤≤
TH	EST R	ESULTS
	FAIL [	
VISUAL: [ ] PENETRATION: [ ] PULL STRENGTH: [ ]	[	PSI Reading:
Qualified in accordance with star	ndard A	MS-W-6858A and QSI 004 (ref: 4.3)
DATE OF TEST COUPON: 1101/3 QUALIFIER:	<u>/_</u>	